

JC928 U.S. PTO
07/24/01

07-25-01 A

PTO/SB/05 (03-01)

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**UTILITY
PATENT APPLICATION
TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. 3994994-131915

First Inventor Ting He

Title Substrates with Small Particle...

Express Mail Label No. EL749133655US

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
2. Applicant claims small entity status.
See 37 CFR 1.27.
3. Specification [Total Pages 21]
 - Descriptive title of the invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
4. Drawing(s) (35 U.S.C. 113) [Total Sheets 5]
5. Oath or Declaration [Total Pages]
 - a. Newly executed (original or copy)
 - b. Copy from a prior application (37 CFR 1.63 (d))
(for continuation/divisional with Box 18 completed)
 - i. **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. Application Data Sheet. See 37 CFR 1.76

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
 - a. Computer Readable Form (CRF)
 - b. Specification Sequence Listing on:
 - i. CD-ROM or CD-R (2 copies); or
 - ii. paper
 - c. Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. Assignment Papers (cover sheet & document(s))
10. 37 CFR 3.73(b) Statement Power of (when there is an assignee) Attorney
11. English Translation Document (if applicable)
12. Information Disclosure Statement (IDS)/PTO-1449 Copies of IDS Citations
13. Preliminary Amendment
14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
15. Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. Other:

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

 Continuation Divisional Continuation-in-part (CIP) of prior application No.: _____ / _____

Prior application information: Examiner Group Art Unit: _____

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

<input checked="" type="checkbox"/> Customer Number or Bar Code Label			<input type="checkbox"/> Correspondence address below
Name	Edwin M. Baranowski		
Address	Porter Wright Morris & Arthur LLP		
	41 South High Street		
City	Columbus	State	Ohio
Country	USA	Telephone	614-227-2188
Date	227-2100		
Name (Print/Type)	Edwin M. Baranowski	Registration No. (Attorney/Agent)	27,482
Signature	<i>Edwin M. Baranowski</i>		Date 24 July 01

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

07/24/01



PORTER WRIGHT MORRIS & ARTHUR LLP
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By Express Mail Receipt No. EL749133655US on July 24, 2001

Box Patent Application
Commissioner for Patents
Washington, D.C. 20231

Re: Inventor: Ting He
Serial Number: To be assigned
Filed: July 24, 2001
Title: SUBSTRATES WITH SMALL PARTICLE SIZE METAL OXIDE WITH
NOBLE METAL CATALYST COATINGS AND THERMAL SPRAYING
METHODS FOR PRODUCING THE SAME

Dear Sir:

For filing, we are enclosing the following in the above-referenced application for United States Letters Patent:

1. Utility Patent Application Transmittal Form PTO/SB/05
2. Fee Transmittal Form PTO/SB/17, including Authorization re: Deposit Account 16-2326 (in duplicate)
3. Application for United States Letters Patent (21 pages, 23 claims); Abstract; 5 sheets of drawings (Figures 1A, 1B, 2A, 2B, 3A, 3B, 4)

The Declaration and Power of Attorney will be filed at a later date.

A Certificate of Filing by Express Mail follows on page 2 of this cover letter.

Please acknowledge receipt of the foregoing by stamping the enclosed postcard and returning it to us for our file.

Very truly yours,

Edwin M. Baranowski

Enclosures

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL

for FY 2001

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT (\$ 1,474)

Complete if Known

Application Number	
Filing Date	24 July 2001
First Named Inventor	Ting He
Examiner Name	
Group Art Unit	
Attorney Docket No.	3994994-131915

METHOD OF PAYMENT

1. The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit Account Number **16-2326**
 Deposit Account Name **Porter Wright Morris & Arthur**

Charge Any Additional Fee Required
Under 37 CFR 1.16 and 1.17

Applicant claims small entity status.
See 37 CFR 1.27

2. Payment Enclosed:

Check Credit card Money Order Other

FEE CALCULATION

1. BASIC FILING FEE

Large Entity	Small Entity	Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
101	710	201	355	Utility filing fee	710
106	320	206	160	Design filing fee	
107	490	207	245	Plant filing fee	
108	710	208	355	Reissue filing fee	
114	150	214	75	Provisional filing fee	
SUBTOTAL (1) (\$)		710			

2. EXTRA CLAIM FEES

Total Claims	Independent Claims	Multiple Dependent	Extra Claims	Fee from below	Fee Paid
43	4		-20** = 23	x 18 = 414	414
			- 3** = 1	x 80 = 80	80
				270	270

Large Entity Small Entity

Fee Code (\$)	Fee Code (\$)	Fee Description
103	18	Claims in excess of 20
102	80	Independent claims in excess of 3
104	270	Multiple dependent claim, if not paid
109	80	** Reissues independent claims over original patent
110	18	** Reissue claims in excess of 20 and over original patent
SUBTOTAL (2) (\$)		764

*or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity	Small Entity	Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for ex parte reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	390	218	195	Extension for reply within second month	
117	890	217	445	Extension for reply within third month	
118	1,390	218	695	Extension for reply within fourth month	
128	1,890	228	945	Extension for reply within fifth month	
119	310	219	155	Notice of Appeal	
120	310	220	155	Filing a brief in support of an appeal	
121	270	221	135	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,240	241	620	Petition to revive - unintentional	
142	1,240	242	620	Utility issue fee (or reissue)	
143	440	243	220	Design issue fee	
144	600	244	300	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Processing fee under 37 CFR 1.17(q)	
126	180	126	180	Submission of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per property (times number of properties)	
146	710	246	355	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	710	249	355	For each additional invention to be examined (37 CFR § 1.129(b))	
179	710	279	355	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	
Other fee (specify) _____					
*Reduced by Basic Filing Fee Paid		SUBTOTAL (3) (\$)			

*Reduced by Basic Filing Fee Paid **SUBTOTAL (3) (\$)**

SUBMITTED BY

Name (Print/Type)	Edwin M. Baranowski	Registration No. (Attorney/Agent)	27,482	Complete if applicable
Signature	<i>Edwin M. Baranowski</i>			Date 24 July 2001

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

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Box Patent Application
Commissioner for Patents

Inventor: Ting He

Title: SUBSTRATES WITH SMALL PARTICLE SIZE METAL OXIDE WITH NOBLE METAL
CATALYST COATINGS AND THERMAL SPRAYING METHODS FOR PRODUCING THE
SAME

July 24, 2001

Page 2

CERTIFICATE OF FILING BY EXPRESS MAIL

I hereby certify that this Application United States Letters Patent comprising:

1. Utility Patent Application Transmittal, PTO/SB/05
2. Fee Transmittal, PTO/SB/17, including Authorization re: Deposit Account 16-2326 (in duplicate)
3. Application for United States Letters Patent (21 pages, 23 claims); Abstract; 5 sheets of drawings (Figures 1A, 1B, 2A, 2B, 3A, 3B, 4)

accompanied by an itemized postcard receipt, is being deposited with the United States Postal Service by Express Mail Receipt No. EL749133655US in an envelope addressed to: Box Patent Application, Commissioner for Patents, Washington, D.C. 20231 on July 24, 2001.



Edwin M. Baranowski